

C O - O P E R A T I V E H O U S I N G F E D E R A T I O N O F B C

CHF BC: Canada's First Carbon Neutral Federation of Housing Co-ops

ICA Housing
London Symposium
October 8, 2010

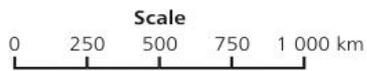


CANADA



CANADA – Political

- International boundary
- - - - - Provincial/territorial boundary
- Alberta** Province/territory
- ★ **Ottawa** National capital
- ◆ **Regina** Provincial/territorial capital









2055 - 2083

2083

MAPLE CREEK
HOUSING CO-OPERATIVE





FORD ROAD HOUSING CO-OPERATIVE

PRIVATE PROPERTY NO TRESPASSING

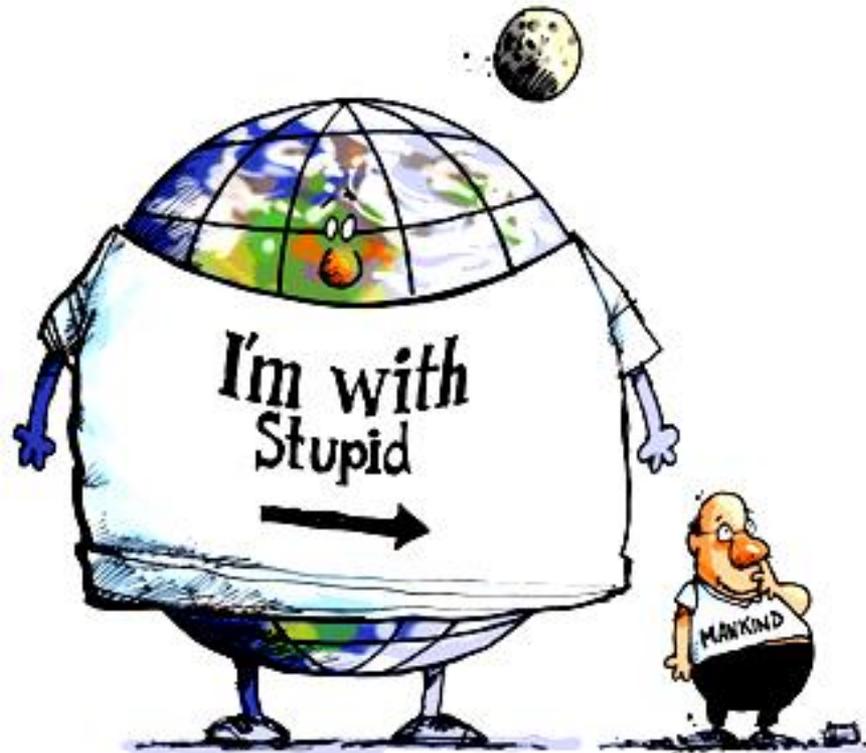






CHF BC

- 235 housing co-ops
- 12,225 co-op homes
- 2 offices
- 86 employees



Sustainability strategy

2007 AGM resolution:

Members directed board to develop a strategy to reduce the impact of CHF BC's operations on the environment.

Sustainability strategy

Key Elements

- Energy use
- Water efficiency
- Waste disposal
- Pollution and toxic materials
- Buildings
- Travel

Sustainability strategy

- Measure current impact (baseline)
- Buy high-quality, local carbon offsets to cover estimated baseline emissions (2007-2008)
- Develop and implement action plan to reduce emissions
- Recalculate emissions and purchase carbon offsets annually, adjusting for reductions achieved



Offsetters





Offsetters Mission

Offsetters is Canada's premier provider of **high quality** carbon offsets. Our mission is to:

1. Help individuals and companies to understand, reduce, track, and offset their climate impact.
2. Promote the mainstream adoption of innovative low carbon energy systems (such as renewable energy projects).



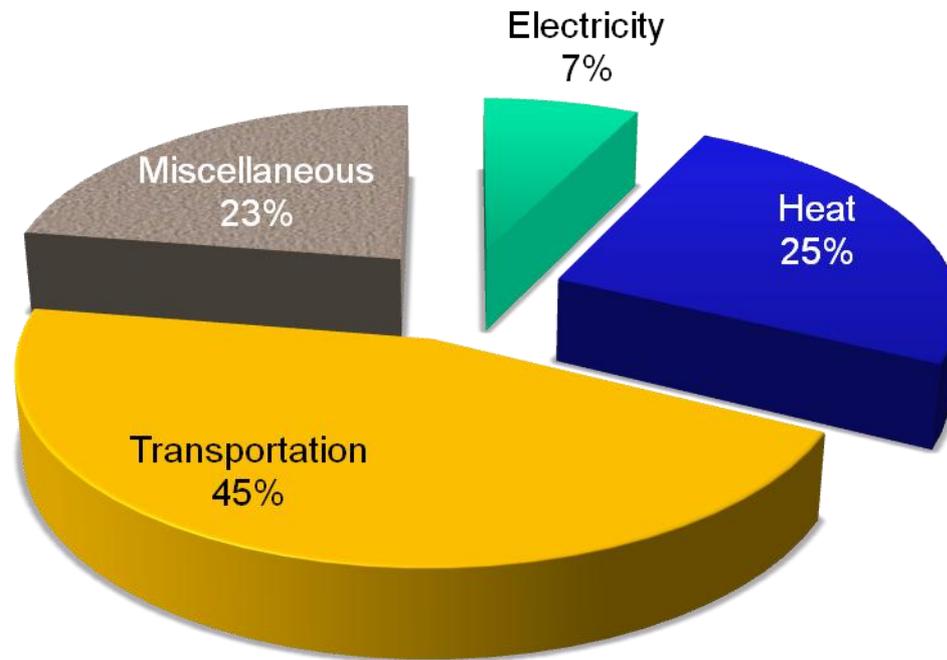
Our Offset Projects

All of our projects are third-party verified as being:

- ❑ **Real** - Verifiers confirm that our projects take place as promised
- ❑ **Additional** - Offsetters investments lead to real reductions in total greenhouse gas emissions by enabling projects that would otherwise not take place
- ❑ **Permanent** - We avoid reforestation and other projects that only temporarily store carbon
- ❑ **Socially beneficial** - Offsetters projects bring social and local environmental benefits as well as climate gains

CHF BC's carbon footprint (54.65 tonnes)

Greenhouse Gas Emissions for 2007



Sustainability strategy

- Waste
 - *upgrade office recycling services*
- Paper
 - *reduce (15% target) and use recycled stock*
- Purchasing
 - *source green options for office supplies*
- Energy consumption
 - *work with landlords on building efficiencies*
- Travel
 - *minimize and look for greenest alternatives*

LET'S RECYCLE!



We've hired a new company to do a monthly pick-up of more recyclables than the City of Vancouver would normally take.

Please clean and separate your recyclables and put them in the appropriate container as labeled.

Thanks for helping the planet!



REFUNDABLES

glass, paper containers, tin, metal drinking bottles, cardboard drink containers, plastic pipes & tubing

REFUNDABLES

- beverage containers (bottles, cans, boxes, etc.)
- milk cartons and bottles





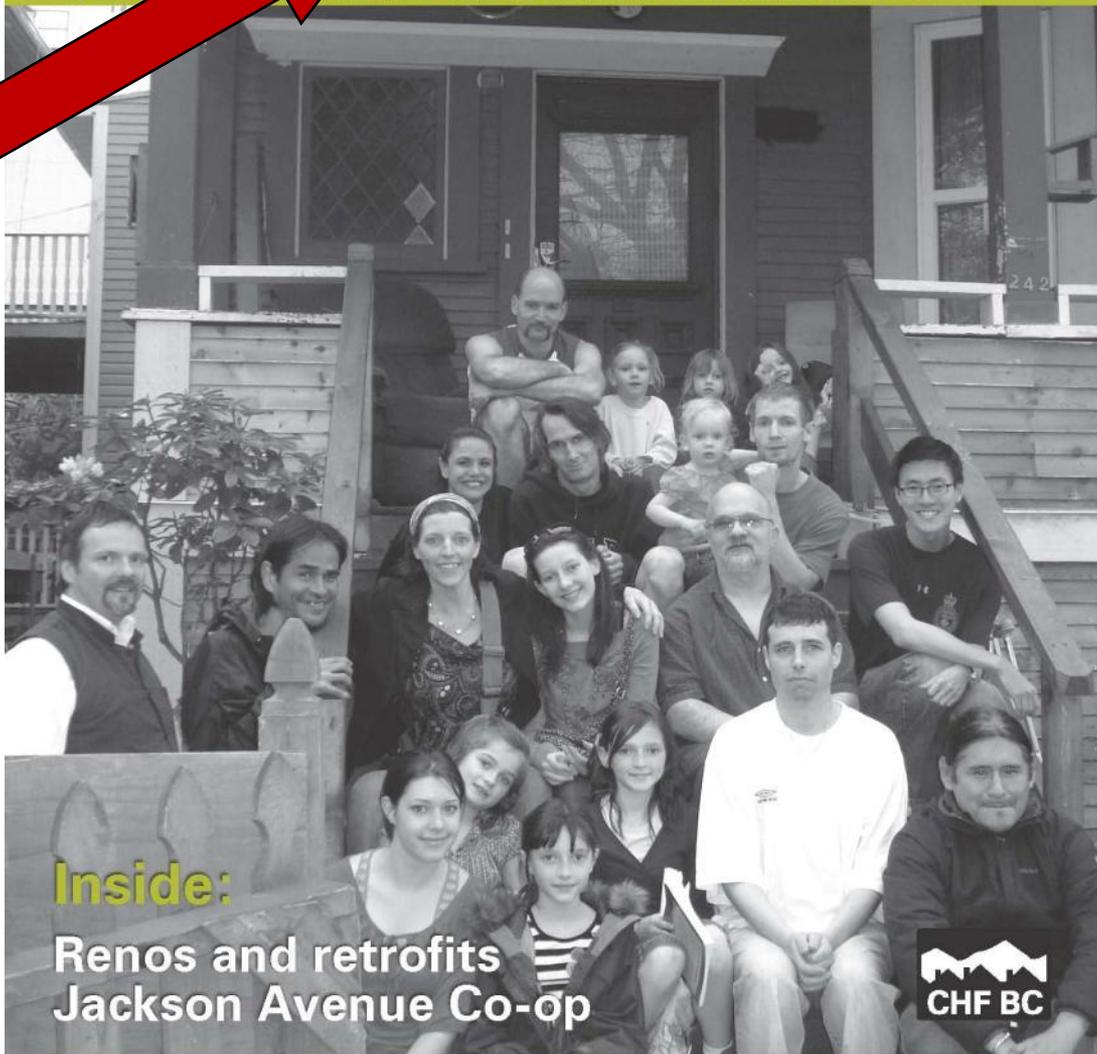
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SCOOP

Now on 100% recycled paper!

THE NEWS MAGAZINE FOR HOUSING CO-OPERATIVES IN BC



Inside:

**Renos and retrofits
Jackson Avenue Co-op**



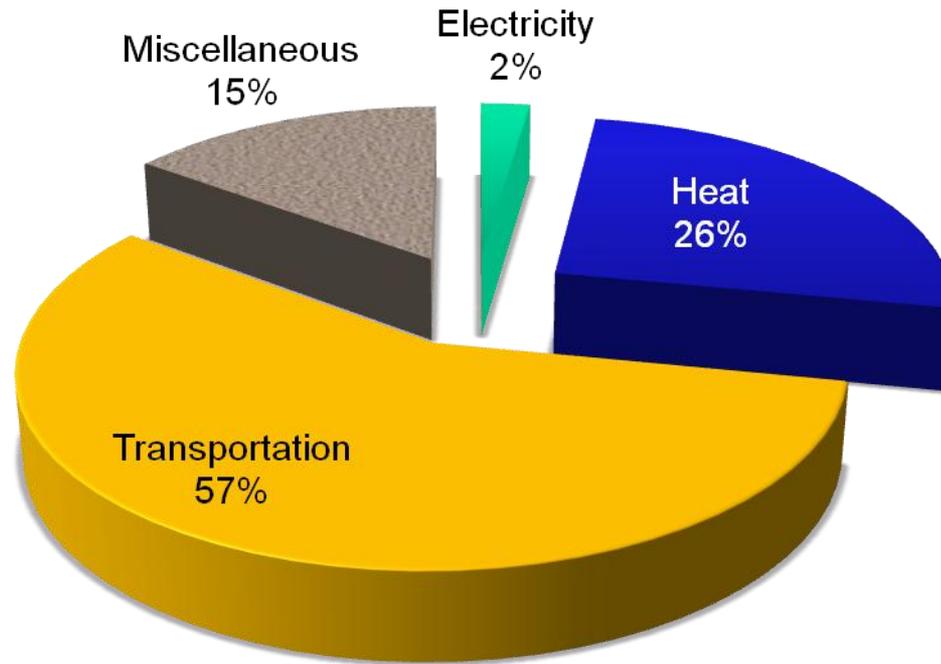
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CHF BC's carbon footprint (52.057 tonnes)

Greenhouse Gas Emissions for 2008



First year reduction in GHG emissions

- Baseline: 54.65 tonnes
- Year one: 52.05 tonnes
- Reduced by: 2.60 tonnes

Key elements of strategy

- Measure
- Verify
- Offset
- Engage members and staff
- Celebrate

Carbon offsets

- Only way to achieve zero impact
- Promotes socially responsible investment
- Potential funding for co-op energy retrofits

BUT...not an easy way out



Offsetters Project



PROFILE: Sun Select Produce Greenhouse
LOCATION: Aldergrove, BC
TYPE: Fuel Switching / Energy Efficiency
CREDITS: ~7,500 tCO₂e / per year

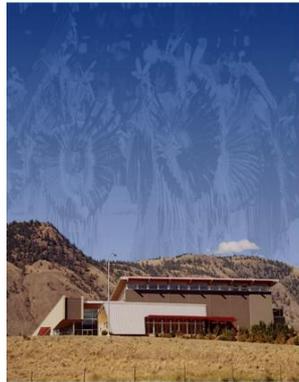
Standard Technology: Natural gas boiler
Innovation: Biomass boilers and heat curtains

Result:

- ❑ model for energy innovation (sectoral expansion)
- ❑ decreased fuel intensity; increased food security
- ❑ reduced light pollution



Offsetters Project

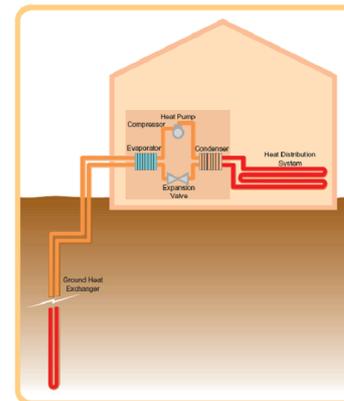


PROFILE: Sk'elep School Of Excellence
LOCATION: Kamloops, BC
TYPE: Energy Efficiency
CREDITS: ~100 tCO₂e

Standard Technology: Gas/Electric HVAC
Innovation: Geothermal Heat Pump

Result:

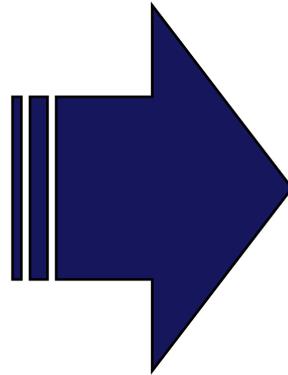
- Model for energy innovation
- Reduced operating costs



What can co-ops do?

Key Elements

- Energy
- Water
- Waste
- Pollution and toxics
- Land and resources
- Carbon emissions



Your Co-op

- Co-op operations
- Buildings and grounds
- Individual members



The industrial-sized composter, nicknamed 'Beulah', at Community Alternatives Co-op.



Members of Community Alternatives check out the Co-op Auto Network car near their co-op.



Sunshine Co-op member, Susan L'Heureux, shows off her new low flow showerhead.

Impact of low flow showerheads

- 189,620,000 litres of water
- 149 tonnes of carbon emissions
- \$34,000 in annual cost savings on energy bills

Benefits of carbon neutral initiative

- Good for the planet
- Increases member and staff engagement
- Motivates individual co-ops to take similar action
- Leads to potential funding for co-op retrofits

Thank you